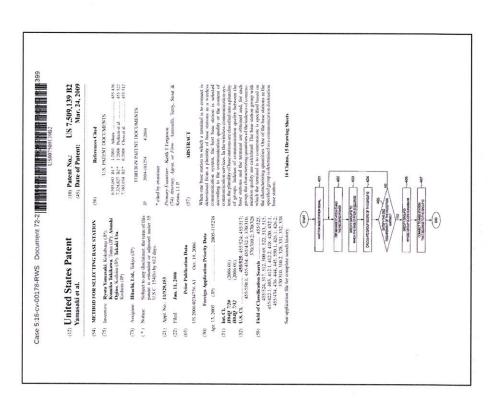
Exhibit A

Huawei's Claim Construction Presentation

Maxell, LTD. v. Huawei Device USA Inc. et al.

Case No. 5:16-cv-00178-RWS (E.D. Tex.)

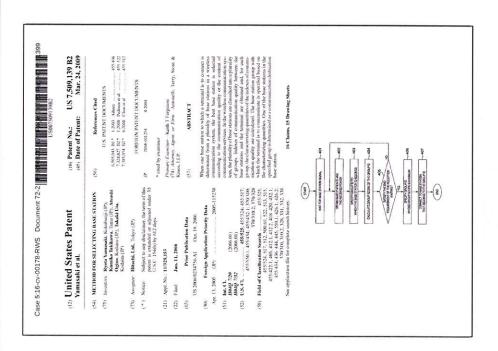
Agenda



'139 Patent The stands of th A CONTRACTOR OF THE CONTRACTOR SERVICE OF STREET TANAMINA AMMINA AMMI AMMINA AM ANALES An AND THE PROPERTY OF THE PROPER WANTED TO SERVICE OF THE PERSON OF THE PERSO MANUAL PROPERTY OF STREET NAME OF THE PERSON NAME OF THE P XXX XXX XXX XXX XXX

'139 Patent: Disputed Terms

 "a storage unit in which group information generated by classifying the plurality of base stations into groups" (claim 11)



'139 Patent: Agreed Constructions

		·
Agreed Construction	"group scores derived from the indication of communication quality for each base station in a group"	"obtaining an indication of communication quality between the terminal and the base stations"
Term	"characterizing quantities of the communication quality for each of the groups" (′139 Patent, Claims 1 and 11)	"obtaining an index of communication quality between the terminal and the base station" ('139 Patent, Claims 1 and 11)
No.	14	10

No.	Term	Maxell	Huawei
2	"storage unit in which	Not indefinite; plain and	Indefinite because the
150	group information	ordinary meaning	claim term does not
	generated by classifying		inform those skilled in
	the plurality of base		the art about the claim's
	stations into groups"		scope with reasonable
	('139 Patent, Claim 11)		certainty

"storage unit in which group "storage information generated by classifying the plurality of base stations into groups [is stored]"

"storage unit in which group information generated by classifying the plurality of base stations into groups [is stored in RAM]"

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION



CoC (Dkt. 106.11)

Maxell's Certificate of Correction Has No Effect Here

H-W Tech., L.C. v. Overstock.com, Inc.

...[I]t appears that H–W never even sought to amend the complaint to reflect the correction of claim 9. Thus, the district court was correct not to consider the certificate of correction when "The certificate of correction is only effective for causes of action arising after it was issued." determining whether H–W could assert claim 9." H-W Tech., L.C. v. Overstock.com, Inc., 758 F.3d 1329, 1334 (Fed. Cir. 2014)

LG Elecs., Inc. v. Quanta Computer Inc.

"[A]ny certificate of correction it received from the patent office would not be effective for the purpose of enforcement <mark>unless it filed a new lawsuit or amended its complaint."</mark> LG Elecs., Inc. v. Quanta Computer Inc., 566 F. Supp. 2d 910, 912–13 (W.D. Wis. 2008) citing Southwest Software, Inc. v. Harlequin Inc., 226 F.3d 1280, 1294 (Fed. Cir. 2000))

Maxell's Certificate of Correction Has No Effect Here

Nat'l Prod., Inc. v. Palmetto W. Trading Co., LLC

recently filed Correction, the court directs the parties to consult the court's original scheduling time, if the parties wish to amend their allegations of infringement or invalidity based on the infringement that pre-date the Certificate of Correction issued on October 11, 2005. At this "[T]he court's construction of the terms ... as originally issued controls for allegations of order in this matter, which requires the asserting party to show 'good cause.'" Nat'l Prod., Inc. v. Palmetto W. Trading Co., LLC, No. C05-345JLR, 2006 WL 1207895, at *9 (W.D. Wash. May 4, 2006)

Pfizer Inc. v. Teva Pharm. U.S.A., Inc.

applied where the defendants' ANDA products will prospectively infringe the patents-in-suit." "While the defendants are correct that, generally speaking, a certificate of correction applies therefore, cannot occur prior to the filing of a complaint, a certificate of correction can be only to actions filed after that certificate issued, this rule does not preclude application of Pfizer's Ce<mark>rtificate, Rather, because</mark> infringement under § 271(e)(2) is hypothetical and,

Pfizer Inc. v. Teva Pharm. U.S.A., Inc., 882 F. Supp. 2d 643, 699 (D. Del. 2012), aff'd 555 F. App'x 961 (Fed. Cir. 2014)

Potential Correction #1

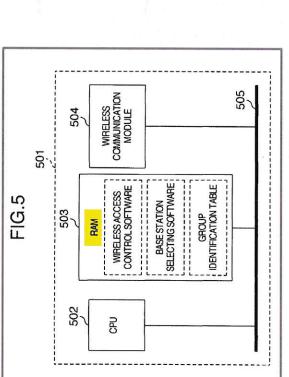
Potential Correction #2

"storage unit in which group information generated by classifying the plurality of base stations into groups [is stored]"

"storage unit in which group information generated by classifying the plurality of base stations into groups [is stored in RAM]"

shown in FIG. 3.4. The wireless communication function and the base station selection algorithm are implemented by executing the software, stored in the RAM, by the CPU. The

'139 Patent, 6:1-3



'139 Patent, Fig. 5

Baran v. Med. Device Techs., Inc.

"It is not necessary that each claim read on every embodiment. In this instance, while claim 2 reads on only the reusable embodiment, a different claim of the '798 patent (claim 18) reads on both the single-use and the reusable embodiments." Baran v. Med. Device Techs., Inc., 616 F.3d 1309, 1316 (Fed. Cir. 2010) (citations omitted)

Unlike Maxell's proposed addition—"... is stored"—the addition of "... is stored in

RAM" would reflect the preferred, and only, embodiment actually disclosed in the '139 patent. See '139 patent, Fig. 5, 5:60-6:11. But both corrections would be reasonable, and it would not be

UARTH DEVICE CALING AND UARTH DEVICE CO. 13D. possible for one of skill in the art to decide with reasonable certainty that only one of these possible

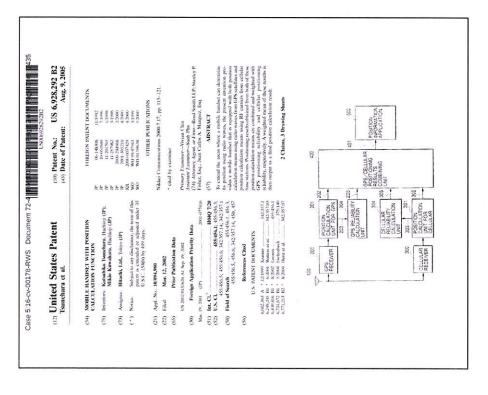
corrections was what was intended for the claim.

Akl Decl. (Dkt. 100-1) ¶189

THE PROPERTY OF THE PROPERTY O

'292 Patent

A COUNTY OF THE PROPERTY OF TH



United States of States of

ANN XXX HODOOOD HODOOO

STATE OF STA

AUX XXX STORY OF THE STORY

Allia XXX XXX

'292 Patent: Disputed Terms

"combining" / "combined" (1 and 2)

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 499 days.

Hitachi, Ltd., Tokyo (JP)

MOBILE HANDSET WITH POSITION CALCULATION FUNCTION

(12) United States Patent Tsunchara et al. 55456.5, 456.6; 342/357.14, 450, 457

Int. Cl. 485,466 5, 455,466, 342,877,14, 342,456,5, 455,456, 4,55,456, 1, 4,55,456, 1, 4

Foreign Application Priority Data

Mar. 12, 2002

 "GPS/cellular positioning results combining means" (1) "GPS position calculation" means (1)

"GPS receiver means" (1)

"cellular receiver means" (1)

GPS position calculation means" (1)

"cellular position calculation means" (1)

GPS RELIABILITY CALCULATION UNIT

CELULAR RELIABILITY CALCULATION UNIT

CELLULAR

GPS CACCUCION CONTROL CACCUCION CONTROL CONTRO

"GPS reliability calculation means" (1)

"cellular reliability calculation means (1)

Huawei	Huawei: "merging"/ "merged"
Maxell	Maxell: "a determination Huawei: "merging", based on one or more "merged" inputs"
Term	"combining" / "combined" ('292 Patent, Claims 1 and 2)
No.	m

GPS/cellular positioning results combining means for combining the GPS-based position result and the cellular-based position result with the GPS positioning reliability and the cellular positioning reliability, wherein said GPS and cellular receiver means are adapted to receive GPS and cellular-oriented signals simultaneously.

"combining"

'292 Patent, claim 1

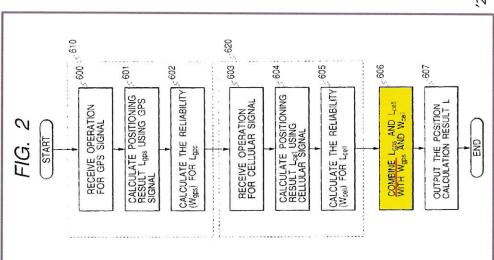
"combined"

outputting a combined GPS/cellular device position based on the GPS-based position, the GPS positioning reliability, the cellular-based position, and the cellular positioning reliability, wherein said GPS and cellular signals are received simultaneously and said GPS-based and cellular-based positions are calculated simultaneously.

'292 Patent, claim 2

The mobile handset then preferably combines the positioning result L_{gps} using the GPS signals and the positioning result L_{cell} using the cellular signals (obtained in the above steps) depending on the reliability W_{gps} and the reliability W_{cell} for each positioning (step 606). The mobile handset then outputs a final position calculation result L 607.

'292 Patent, 3:12-17



'292 Patent, Fig. 2

L=(X, Y)410 COMBINATION OPERATION UNIT GPS/CELLULAR POSITIONING RESULTS COMBINING UNIT Wgps Ygps + Wcell Ycell Wgps Xgps + Wcell Xcell Wgps + Wcell Wgps + Wcell = × Lgps = (Xgps, Ygps) Loell=(Xcell, Ycell) Wgps

'292 Patent, Fig. 3

cellular reliability calculation unit 304 preferably outputs a In some cases, the cellular reliability calculation unit 304 may determine that calculating the position of the handset using cellular signals is not possible, as was the case for the GPS reliability calculation unit 204. In that event, the value of 0, so that the position calculation result 302 using the cellular signals has no effect on further processing.

combines the positioning result 202 using the GPS signals each positioning, and it 400 outputs a position calculation The GPS/cellular positioning results combining unit 400 depending on the reliability 205 and the reliability 305 for and the positioning result 302 using the cellular signals, result 401.

3 example, the positioning result 202 using the GPS signals respectively. The combination operation unit 410 calculates and the positioning result 302 using the cellular signals are FIG. 3 represents an exemplary embodiment of the GPS/ cellular positioning results combining unit 400. In the FIG. weighted with the reliability 205 and the reliability 305, a weighted mean of the above results and outputs the result as the position calculation result 401. '292 Patent, 4:35-56

If unreliable, a position estimate is still combined (with a weight of 0)

unit 204 preferably outputs a value of 0 as the reliability 205 so that the GPS-based position calculation result 202 has no determine that positioning by GPS is impossible. (For example, if the number of GPS satellites used is found to be two or less). In that event, the GPS reliability calculation By way of illustration, if the received signal quality (for example, the signal-to-noise ratio (SNR) in decibels) is used, the lowest SNR among the SNRs of the signals received In some cases, the GPS reliability calculation unit 204 may from the GPS satellites may be used as the reliability 205 effect on further processing. '292 Patent, 3:60-4:3

GPS reliability calculation unit 204. In that event, the value of 0, so that the position calculation result 302 using In some cases, the cellular reliability calculation unit 304 may determine that calculating the position of the handset using cellular signals is not possible, as was the case for the cellular reliability calculation unit 304 preferably outputs a the cellular signals has no effect on further processing. (X_{cell},Y_{cell}) More Year + Weell Yeell West Weell

=(X, Y)

410

COMBINATION OPERATION UNIT

Lgps = (Xgps, Ygps)

X= Yes Xgps + Wcell Xcell

Wgps

205

Loell=(Xcell, Ycell)

Wcell

GPS/CELLULAR POSITIONING RESULTS COMBINING UNIT

'292 Patent, Fig. 3

292 Patent, 4:35-42

Maxell admits that the '292 Patent is about "merging"

CERO \$1.00-00178-RWS DOCUMENTS BY First 00221/12 Page 1 of 17 Proped n° 448

TANKEN BY RICH OF TANG

HELNEY FEBRUARY

CAS No. 5 feet 00175-RWS

RICHARD BY RICHARD

RANNER DEVICE CO. L.D.

PARTINE HELD N' RICHARD BY TRIAL BENINDED

HANNER DEVICE CO. L.D.

RICHARD DEVICE CO. L.D.

PARTINE HERST NANABLE L.D. N

RICHARD TO DEVINE CONTEXANDED

HERST NANABLE L.D. N

RICHARD TO THE LIBERT NANABLE L.D. N

RICHARD TO THE L.D. N

RICHARD TO THE L.D. N

RICHARD TO THE LIBERT NANABLE L.D. N

RICHARD TO THE L.D. N

RICHARD TO

Dkt. 29 (Maxell's Resp. to MTD)

12.

The device could then determine the reliability of each estimate based on signal quality and number of sources, and use those reliability determinations to merge the estimates into a final

location. Id.

Dkt. 29 (Maxell's Resp. to MTD) at 1 (citing Braasch Decl. ¶12)

To overcome these shortcomings, the inventors proposed supplementing the GPS data with a complementary source of location information—cellular signals. The mobile handset could generate two estimates of its location, one based on GPS signals from satellites and a second based on "synchronization acquisition and reception timing measurements" of cellular signals. *Id.* at 2:66-3:6; Ex. A ¶16. The handset could then merge the two estimates based on the

reliability of each. Ex. A ¶16.

Dkt. 29 (Maxell's Resp. to MTD) at 4

materias used end as signal quality from those warrors. 299, pagent, 156-11; 15; A. C18. The

handset could then use the two reliability measures to merge the GPS-based and cellular-based estimates into a single, "final" location. '292 patent, 3:12-17. By using both GPS signals and cellular signals in this way, the mobile device could offer more accurate location services indoors, under cloud cover, and/or in proximity to a tall building or other obstructions. *Id.* at 5:3-

Dkt. 29 (Maxell's Resp. to MTD) at 5

Maxell admits that "combine" means "blend"

HUAWEI DEVICE USA INC. AND HEAWEI DEVICE CO., LTD.,

Dkt. 33 (Plaintiff's Sur-Reply to MTD)

examples of how those reliability estimates are calculated (e.g., using the signal strength and the The claims do not preempt every way of combining two data sources based on their reliability. First, they are directed specifically to the problem of locating mobile telephones. number of towers or satellites) and how they are used to blend the two sources of data (e.g., Second, they choose two specific data sources—GPS satellites and cellular networks. '292 respective reliability estimates. Id. at 6:11-15. Fourth, the specification describes concrete patent, 5:32-33 & 6:1-9. Third, they recite a specific way of combining the data, based on using a weighted average). 2 In short, the 1292 parent does not "monopolize every patential

Dkt. 33 (Plaintiff's Sur-Reply to MTD)

Objective extrinsic evidence support Huawei's construction



Combine defined as "To bring into a state of unity; merge."

Combining defined as "The act or process of joining, merging, or mixing two or more things." Ex. 10 (The American Heritage Dictionary of the English Language Third Edition copyrighted 1996) at 377

Peer Commc'ns Corp. v. Skype Techs. SA, Skype, Inc., 2008 WL 4831001, at *6 (E.D. Tex. May 29, 2008) (using American Heritage Dictionary of the English Language to construe a term); aff'd,

33 F. App'x 570 (Fed. Cir. 2009).

This Court (and others) have construed "combining" consistent with Huawei's construction

Charles E. Hill & Assocs., Inc. v. Abt. Elecs., Inc., 2012 WL 72714, at *13 (E.D. Tex. Jan. 10, 2012) ("combining" means "*merging or uniting* in the remote computer the constant data and variable data in a meaningful way") The American Heritage Dictionary of the English Language (3d ed. 1996) (Dkt. 100-18)

Sw. EFuel Network, L.L.C. v. Transaction Tracking Techs., Inc., 2009 WL 3460265, at *8 (E.D. Tex. Oct. 23, 2009) (adopting agreement that "combining" means "*Merging* the data from")

Power Integrations, Inc. v. Fairchild Semiconductor Int'I, Inc., 422 F. Supp. 2d 446, 457 (D. Del. 2006) ("combining" means "adding together").

Even if W_{gps} = 100%, Maxell's construction Maxell's construction (1) is a return to the prior art ("at least one") and (2) reads out the preferred embodiment

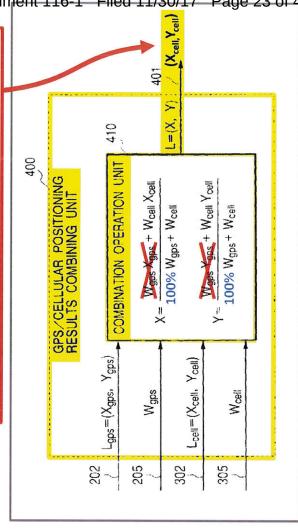
would allow Lgps to be ignored.

Prior Art: location estimate is either GPS or cellular position

When a mobile handset attempts to determine its position by either the GPS method or the method using RF carriers from cellular base stations, there may be some locations where an accurate position determination can not be established. Consequently, location information serviceable areas may be restricted by conventional methods.

SUMMARY OF THE INVENTION

To address the above problems, a mobile handset according to the present invention is equipped with both position



'292 Patent, 1:58-67

'292 Patent, Fig. 3

'292 Patent: "GPS/cellular ... combining mean" (1)

Huawei	Function: combining the GPS based position result and the cellular-based position result with the GPS positioning reliability and the cellular positioning reliability Structure: GPS / Cellular Positioning Results Combining Unit 400 performing the weighted mean disclosed in Figure 3 and at col. 4:49-56, block 606 in Fig. 2
Maxell	Function: combining the GPS-based position result and the cellular-based position result with the GPS positioning reliability and the cellular positioning reliability and the cellular positioning results combining unit 400 and/or components within a mobile handset that perform processing functions, such as, a CPU programmed to execute processing in accordance with the algorithm set forth in the specification, a processor that combines GPS/cellular position as described in Fig. 2 (block 605) and corresponding recitations in the specification as provided herein, or equivalents thereof. See e.g., (4:42-56), (Fig. 3 at 400), (3:12-17), (5:3-7).
Term	"GPS/cellular positioning results combining means for combining the GPS-based position result and the cellular-based position result with the GPS positioning reliability and the cellular positioning reliability." ('292 Patent, Claim 1)
No.	4

'292 Patent: "GPS/cellular ... combining mean" (1)

The mobile handset then preferably combines the positioning result Lgps using the GPS signals and the positioning result L_{cell} using the cellular signals (obtained in the above steps) depending on the reliability Wgps and the reliability W_{cell} for each positioning (step 606). The mobile handset then outputs a final position calculation result L 607. 292 Patent, 3:12-17

combines the positioning result 202 using the GPS signals each positioning, and it 400 outputs a position calculation The GPS/cellular positioning results combining unit 400 depending on the reliability 205 and the reliability 305 for and the positioning result 302 using the cellular signals, result 401.

401

COMBINATION OPERATION UNIT

Lgps=(Xgps, Ygps)

Wgps Xgps + Wcell Xcell

Wgps+ Wcell

Wgps Ygps + Wcell Ycell

Loell=(Xcell, Ycell)

Wgps + Wcell

GPS/CELLULAR POSITIONING RESULTS COMBINING UNIT

L=(X,

3 example, the positioning result 202 using the GPS signals and the positioning result 302 using the cellular signals are weighted with the reliability 205 and the reliability 305, respectively. The combination operation unit 410 calculates cellular positioning results combining unit 400. In the FIG. FIG. 3 represents an exemplary embodiment of the GPS/ a weighted mean of the above results and outputs the result as the position calculation result 401

'292 Patent, Fig. 3

'292 Patent, 4:42-56

'292 Patent: "GPS receiver means" (1)

No.	Term	Maxell	Huawei
2	"GPS receiver means for receiving GPS-oriented signals and generating received GPS signals" ('292 Patent, Claim 1)	Function: Receiving GPS-oriented signals and generating received GPS signals Structure: A GPS receiver 200 and/or components within a mobile handset that receive GPS signals, such as, an antenna and a transceiver or a processor that performs GPS receiving processes as described in Fig. 2 (block 600) and corresponding recitations in the specification as provided below or equivalents thereof. See e.g., (2:64-65; block 600 in Fig. 2), (3:24-32), (4:65-5:2), (2:53-57), (5:3-7).	Function: (1) receiving GPS oriented signals and (2) generating received GPS signals Structure: GPS receiver 200, Block 600 in Figure 2

292 Patent: "GPS receiver means" (1)

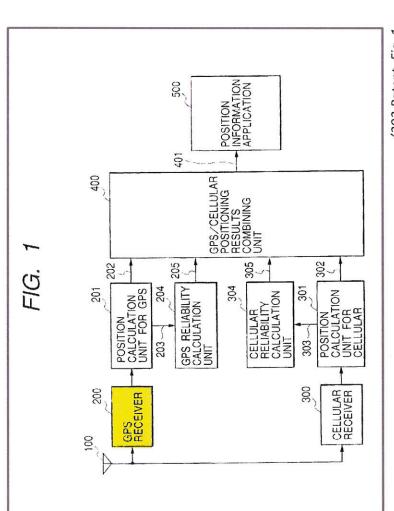
FIG. 2 illustrates an example of the method in which a mobile handset determines its position, according to the present invention. Initially, the mobile handset executes a receive operation for GPS-oriented signals (hereinafter referred to as GPS signals) 600 including synchronization acquisition and reception timing measurements required for position determination using GPS. Therefore the mobile

292 Patent, 2:51-57

Based on the result of the operations executed by the GPS receiver 200, a position calculation unit for GPS 201 calculates the position of the mobile handset using the GPS signals and outputs the GPS-based position calculation result 202 to a GPS/cellular positioning results combining unit 400. At the same time, the position calculation unit for GPS 201 outputs information about the reliability of the GPS-based position calculation result 203 (for example, the number of GPS satellites used in the above calculation and the received signal quality of the signals from the GPS satellites) to a GPS reliability calculation unit 204.

'292 Patent, Fig. 1

292 Patent, 3:32-43



'292 Patent: "Cellular receiver means" (1)

Huawei	Function: (1) receiving cellular- oriented signals and (2) generating received cellular signals Structure: cellular receiver 300, Block 603 in Fig. 2
Maxell	Function: receiving cellular- oriented signals and generating received cellular signals Structure: A cellular receiver 300 and/or components within a mobile handset that receive and generate cellular signals, such as, an antenna, a transceiver, a processor that performs cellular receiving processes as described in Fig. 2 (block 603) and corresponding recitations in the specification provided herein, or equivalents thereof. See e.g., (2:66-3:4), (3:10-11; see block 603 in Fig. 2), (4:4-9), (2:53-57), (5:3-7).
Term	"cellular receiver means for receiving cellular-oriented signals and generating received cellular signals" ('292 Patent, Claim 1)
No.	9

292 Patent: "Cellular receiver means" (1)

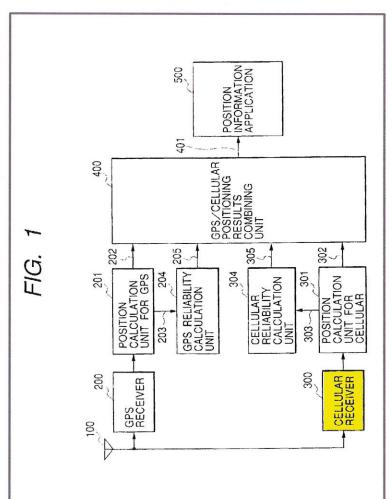
Additionally, the mobile handset executes a receive operation for cellular-oriented signals (hereinafter referred to as cellular signals) 603 including synchronization acquisition and reception timing measurements required for position determination using cellular signals from cellular base stations. Thereafter, the mobile handset actuals its posi-

'292 Patent, 2:66-3:4

In much the same way, a cellular receiver 300 executes the receive operations required for position determination which preferably include: receiving the cellular signals of high/medium frequencies out of the signals received by the antenna 100; baseband signal modulation; synchronization acquisition; and reception timing calculation.

'292 Patent, 4:4-9

'292 Patent, Fig. 1



'292 Patent: "GPS position calculation means" (1)

'292 Patent, 2:57-60

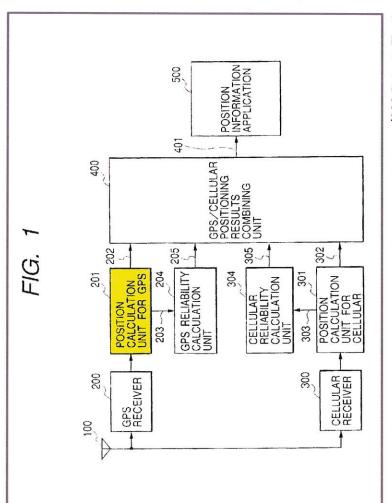
292 Patent: "GPS position calculation means" (1)

handset calculates its position using GPS. Thereafter, the mobile handset calculates to positioning the GPS signals; that is, the handset calculates positioning result L_{gps} using the GPS signals 601. The mobile handset also calculates the reliability

Based on the result of the operations executed by the GPS receiver 200, a position calculation unit for GPS 201 calculates the position of the mobile handset using the GPS signals and outputs the GPS-based position calculation result 202 to a GPS/cellular positioning results combining unit 400. At the same time, the position calculation that 400.

'292 Patent, 3:33-37

'292 Patent, Fig. 1



'292 Patent: Three Indefinite Means Terms (1)

- "cellular position calculation means for calculating the mobile calculating GPS positioning reliability based on the GPS-based handset's position from GPS reliability calculation means for position result"
- "GPS reliability calculation means for calculating GPS positioning reliability based on the GPS-based position result"
- positioning reliability based on the cellular-based position result" "cellular reliability calculation means for calculating cellular

'292 Patent: Indefinite Means Terms (Cl. 1)

Williamson v. Citrix Online, LLC

function....[I]f a person of ordinary skill in the art would be unable to recognize the structure in the specification and associate it with the corresponding function in the claim, a means-plus-"[T]he disclosure must be of adequate corresponding structure to achieve the claimed function clause is indefinite." Williamson v. Citrix Online, LLC, 792 F.3d 1339, 1352 (Fed. Cir. 2015) (quotation marks and citations omitted)

consistently required that the structure disclosed in the specification be more than simply a general purpose computer or microprocessor. We require that the specification disclose an "In cases ... that must be implemented in a special purpose computer, this court has algorithm for performing the claimed function." Id. (quotation marks and citations omitted)

"The testimony of one of ordinary skill in the art cannot supplant the total absence of structure from the specification." ld. at 1354

Biomedino, LLC v. Waters Techs. Corp.

"[A] bare statement that known techniques or methods can be used does not disclose structure."" Biomedino, LLC v. Waters Techs. Corp., 490 F.3d 946, 953 (Fed. Cir. 2007)

'292 Patent: Indefinite Means Terms (Cl. 1)

 Maxell cites In re Katz, which concerned generic functions for a generic computer:

In re Katz

run afoul of the rule against purely functional claiming, because the functions purpose processor that performs those functions. Those seven claims do not achieved by any general purpose computer without special programming. . of 'processing,' 'receiving,' and 'storing' are coextensive with the structure . As such, it was **not necessary to disclose more structure than the general** "Katz has not claimed a specific function performed by a special purpose 'receiving,' and 'storing.' Absent a possible narrower construction of the computer, but has simply recited the claimed functions of 'processing,' terms 'processing,' 'receiving,' and 'storing,' those functions can be disclosed, i.e., a general purpose processor. In re Katz Interactive Call Processing Patent Litig., 639 F.3d 1303, 1315-17 (Fed. Cir. 2011)

'292 Patent: Indefinite Means Terms (Cl. 1)

In re Katz

disclose an algorithm for [any] recited function' that is performed solely or predominantly by capable of performing those specified functions" this "require[s] that 'the specification .. programming a general purpose computer to convert it into **a special purpose computer** But Katz notes that with "specific functions that would need to be implemented by a general purpose computer." Katz (citing Aristocrat, 521 F.3d at 1333–34; Harris, 417 F.3d at 1253; WMS Gaming, 184 F.3d at 1349)

Indeed, "by claiming a processor programmed to perform a specialized function without disclosing the internal structure of that processor in the form of an algorithm, [other of] violation of the limits Congress placed on means-plus-function claims in section 112, Katz's claims exhibit the 'overbreadth inherent in open-ended functional claims,' ... in paragraph 6." Katz (quoting Halliburton Energy Servs. v. M—I LLC, 514 F.3d 1244, 1256 n. 7 (Fed. Cir. 2008))

For "specific computer-implemented functions . . . corresponding algorithms must be disclosed." Katz

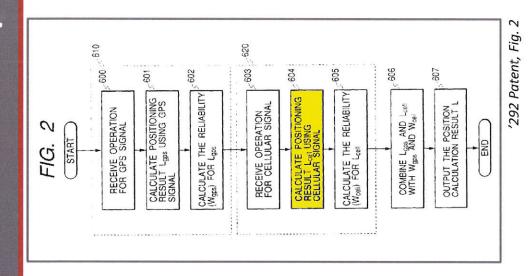
'292 Patent: 101/Alice and Indefiniteness of Certain Claim 1 Terms

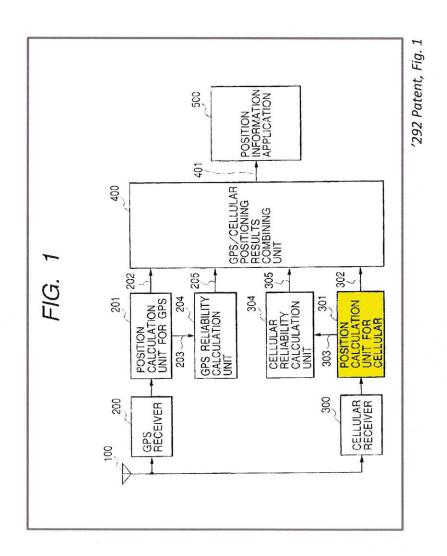
Section 101:

- Do the claims add any inventive concept under Alice Step 2?
- '292 Patent does not add inventive concepts; simply claims processing different types of data, which is insufficient. *See Electric Power*
- No claimed improvements to generic computer-based technology. Cf. Enfish
- For example, there are no algorithms for accomplishing these alleged improvements

Section 112: Lack of algorithm is also why Claim 1 is indefinite: simply stating a goal of computer processing is not structure

Huawei	Function: (1) calculating the mobile handset's position from the received cellular signals and (2) outputting a cellular based position result. Structure: position calcular structure because the specification does not disclose the necessary algorithm or flowchart, which renders the term indefinite
Maxell	Function: calculating the mobile handset's position from the received cellular signals and outputting a cellular-based position result unction: calculating the mobile handset's position from the received cellular signals and outputting a cellular-based position result Structure: A position calculation unit 301 and/or components within a mobile handset that perform processing functions, such as, a CPU programmed to execute processing in accordance with the algorithm set forth in the specification, or a processor that performs cellular position calculation processes as described in Fig. 2 (block 604) and corresponding recitations in the specification as provided herein, or equivalents thereof. See e.g., (1:23-27), (3:10-11; block 604 in Fig. 2), (4:4-16), (2:66-3:6), (5:3-7).
Term	"cellular position calculation means for calculating the mobile handset's position from GPS reliability calculation means for calculating GPS positioning reliability based on the GPS-based position result" ('292 Patent, Claim 1)
No.	∞



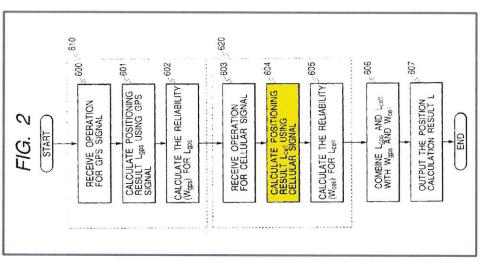


stations. Thereafter, the mobile handset calculates its position using the cellular signals; that is, the handset calculates positioning result L_{cell} using the cellular signals **604**. The

292 Patent, 3:4-6

Based on the result of the operations executed by the cellular receiver 300, a position calculation unit for cellular 301 calculates the position of the mobile handset using the cellular signals and outputs the cellular-based position calculation result 302 to the GPS/cellular positioning results combining unit 400. At the same time, the position calculation

'292 Patent, 4:10-15



'292 Patent, Fig. 2

132. In my opinion, the only structure disclosed in the '292 patent that is clearly associated with the cellular position calculation means is position calculation unit for cellular 301 but this does not denote structure on its own and the '292 patent does not disclose an algorithm or flowchart for calculating the mobile handset's position from the received cellular signals.

Case 5:16-cv-00178-RWS Document 100-1 Filed 10/23/17 Page 1 of 94 PageID #: 2061

THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF TEXAS TEXARKANA DIVISION 133. In my opinion, position calculation unit for cellular 301 does not denote structure and is not an algorithm for performing the claimed functions. It is, instead, a black box that takes in inputs—received cellular signals—and produces a desired output—a cellular based position result—but the algorithm being performed within that black box is not disclosed in the '292 patent.

Civil Action No. 5:16-cv-00178-RWS JURY TRIAL DEMANDED

> HUAWEI DEVICE USA INC. AND HUAWEI DEVICE CO., LTD.,

HITACHI MAXELL, LTD.

134. A person of ordinary skill in the art would understand that, at the time of the invention of the '292 patent, there were several ways to calculate a wireless reminal's position using cellular-based signals and that at the time of the alleged invention these techniques were (and to this day typically still are) calculated as algorithms executed in a general-purpose processor.

135. In my opinion, the additional citations to the specification that Maxell identifies—(1:23-27), (3:10-11; block 604 in Fig. 2), (4:4-16), (2:66-3:6), and (5:3-7)—do not disclose structure for the claimed function of calculating the mobile handset's position from the received cellular signals and outputting a cellular-based position result; they do not denote structure to one of ordinary skill nor do they disclose an algorithm for calculating a wireless terminal's position using received cellular position.

Akl Decl. (Dkt. 100-1) ¶¶132-35